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APPLICATION NO.	. I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/514,627		01/20/2006	Kazuo Kuroda	8048-1065	8388	
466	7590	06/15/2006		EXAMINER		
YOUNG &	& THOM	PSON	ASSAF, FAYEZ G			
745 SOUTI 2ND FLOC		TREET		ART UNIT	PAPER NUMBER	
ARLINGTO		22202		2872		
				DATE MAILED: 06/15/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	<i>-</i>
_	10/514,627	KURODA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Fayez G. Assaf	2872	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet v	vith the correspondence address -	•
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN t 1.136(a). In no event, however, may a find will apply and will expire SIX (6) MC stute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communicated (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on  2a) ☐ This action is <b>FINAL</b> . 2b) ☑ T  3) ☐ Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal ma	•	s is
Disposition of Claims			
4)  Claim(s) 1-13 is/are pending in the applicating 4a) Of the above claim(s) is/are with the solution of the above claim(s) is/are with the solution of the above claim(s) is/are allowed.  6)  Claim(s) 1-13 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and the solution of the application of the appl	drawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exam 10)☑ The drawing(s) filed on 17 November 2004 is Applicant may not request that any objection to to Replacement drawing sheet(s) including the corn 11)☐ The oath or declaration is objected to by the	is/are: a)⊠ accepted or b)[ the drawing(s) be held in abeya rection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.12	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)  1)  Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date 11/17/2004.

Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application (PTO-152)

6) Other: \_\_\_\_.

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## DETAILED ACTION

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over King et al. (US 2003/0039001 A1).

Regarding claims 1-4, 7, 8 and 10-13, King discloses an angle-multiplex type hologram recording apparatus comprising: a light source (110 of Fig. 1) for performing an irradiation with source light including signal light and reference light (120 and 125 of Fig. 1); a spatial light modulator (155 of Fig. 1) disposed in an optical path of the signal light, for modulating the signal light; an optical system for introducing the signal light passed through the spatial light modulator and the reference light onto a hologram recording medium( 130, 145, 170 and 190 of Fig. 1); a record angle change device for relatively changing a record angle of the hologram recording medium

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relative to the signal light and the reference light (130 of Fig. 1); and a control device (190 of Fig. 1) for controlling the record angle change device to set the record angle when a specific angle record plane is recorded (see paragraphs [0056] to [0058]).

King discloses the claimed invention except for explicit teaching with regard to setting standard record angle changing and fixing the record angle after then by a predetermined angle from the set standard record angle (interpreted as changing the angle from the first set angle by equal intervals of angles).

However, the device of King's has sufficient structure to perform the given function, and such functionality can be achieved by routine experimentation which does not serve as basis for patentability.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide such change and fix of the record angle, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. One would have been motivated to provide such function because the movement can be easily reproduced when retrieving the recorded information.

In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235.

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Recording claim 5, 9, King discloses a move device (185 of Fig. 1) for moving the hologram recording medium relative to a focus position of the reference light and the signal light introduced by the optical system.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kawano et al. (US 6,317,404 B1)

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fayez G. Assaf whose telephone number is (571) 272-2307. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval

(PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

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information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fayez G. Assaf Primary Examiner Art Unit 2872

6/12/2006